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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/026,117	12/21/2001	Ping-Chuan Wang	FIS9-2001-0311US1	4950	
32074	7590 11/21/2003		EXAMINER .		
	TIONAL BUSINESS	SOWARD, IDA M			
DEPT. 18G BLDG. 300		ART UNIT	PAPER NUMBÉR		
2070 ROU		2822			
HOPEWEL	L JUNCTION, NY 12	DATE MAILED: 11/21/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		-	Applicatio	n No.	Applicant(s)				
Office Action Summary		10/026,11	7	WANG ET AL.					
		Examiner		Art Unit					
		Ida M Sow		2822					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)🖂	Responsive to communication(s) file	led on <u>19 Au</u>	<u>ıgust 2003</u> .						
2a) <u></u> ☐	a) This action is FINAL . 2b) This action is non-final.								
3)🖂	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
5)⊠ 6)□ 7)□	 4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 1-18 is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 								
Application Papers									
 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 17 April 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 									
Priority under 35 U.S.C. §§ 119 and 120									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 									
Attachmen	t(s)								
2) Notic	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449)			4) Interview Summary 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

This Office Action is in response to the Appeal Brief filed August 19, 2003.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "145" has been used to designate both <u>n level</u> metallization and the inner portion between 455b2 and 455b1 in Figure 7a. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: **465** on page 22, line 18. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description:

110 (a-c) & 120 (a-c) in Figures 5a-5c and 475 in Figure 9. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference

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sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally <u>limited to a single paragraph on a separate sheet</u> within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Allowable Subject Matter

Claims 1-18 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to semiconductor interconnect structures:

Kuo (6,043,144)

Moslehi (6,124,198)

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Sasaki (US 4,368,939 B1)

Yegnashankaran et al. (6,100,590).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ida M Soward whose telephone number is 703-305-3308. The examiner can normally be reached on Monday - Thursday, 6:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 703-308-4905. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

ims

November 15, 2003

AMIR ZAPABIAN SUPERVISGEY PATEME EXAMINER TECHNOLOGY CENTER 2800

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